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# SCIENCE

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## THE VALUE OF ZOOLOGY TO HUMANITY<sup>1</sup> THE CULTURAL VALUE OF ZOOLOGY

ALL sciences are so interrelated that it is not easy to point out the distinctive contributions of any one science to human welfare, and in particular I have found it impossible to separate zoology from other biological sciences in this regard. Accordingly, in what I shall say it will be understood that I am speaking for all the biological sciences and not for zoology alone.

Again culture is no single definite object, but a general and rather indefinite ideal. There are many kinds of culture—physical, intellectual, moral, esthetic, religious, governmental, etc.—but each and all forms of culture may be regarded from the standpoint of the individual or from that of society; the former we call education, the latter civilization.

### I. CONTRIBUTIONS OF BIOLOGY TO EDUCATION

The method of the scientist is to generalize only from particular objects or phenomena, and a naturalist, if asked what the cultural value of biology is, would ask to see some of the specimens. The members of this society are my specimens, my living exhibits of the cultural value of biology. What are your distinctive cultural characteristics? To avoid the personal error it would have been well to have asked each one of you to describe the characteristics of some other member of the society, but making allowance for the personal error, I believe that the biologist shows the following qualities:

1. Immense enthusiasm and intense con-

MSS. intended for publication and books, etc., intended for review should be sent to Professor J. McKeen Cattell, Garrison-on-Hudson, N. Y.

<sup>1</sup> Four papers in a symposium before the American Society of Naturalists, Philadelphia, December 31, 1914.